

**B. S. DEGREE IN BIOLOGY -- Biology Option -- Catalog 2019-2020
(70 Hours)**

This program is designed to meet the needs of biology majors who may wish to pursue further education in graduate school in biology or professional schools in the health sciences. The sequence of courses conforms to entrance requirements prescribed in publications of most health professional programs.

A major in the Biology Option can be declared after completing 24 credit hours and BIO 201 and BIO 202, or equivalent courses, with a grade of 'C' (2.00) or better in both courses.

Core Requirements: (21 hours total)

- _____ 201 Principles of Biology: Cells (4)
- _____ 202 Principles of Biology: Biodiversity (4)

*****BIO 201 and 202 are the prerequisite courses for all biology courses numbered 300 and above*****

- _____ 335 Genetics with lab (3) (1), prerequisites: BIO 201 and BIO 202
- _____ Physiology, chosen from one of the following bullets:
 - 325 Molecular Biology of the Cell with lab (3) (1), prerequisites: BIO 201, BIO 202, and CHM 211/CHML 211
 - 340 Plant Physiology (4), prerequisites: BIO 201, BIO 202, and CHM 102
 - 345 Animal Physiology with lab (3) (1), prerequisites: BIO 201, BIO 202, and CHM 102
 - 240 – 241 Human Anatomy and Physiology (4) (4), prerequisites: 240=BIO 201 and CHM 101; 241=BIO 240
- _____ 366 Ecology with lab (3) (1), prerequisite: BIO 201 and BIO 202
- _____ 495 Seminar (1), prerequisites: BIO or MBY major; BIO 201, 202, 335, 366, and a physiology course
- _____ Applied Learning -- To satisfy the applied learning requirement for the B.S. in marine biology a student must successfully complete one of the following: honors in any science department (BIO 499, CHM 499, EVS 499, GLY 499, MAT 499, PSY 499, PHY 499); directed individual study involving hands-on experience in any science department (BIO 491, CHM 491, EVS 491, GLY 491, MAT 491, PSY 491, PHY 491); BIO 498 Internship, BIO 493 Teaching Practicum; formal student teaching experience taken for UNCW credit (e.g. EDNL 406, EDN 409, EDN 411); BIO 480 Field Studies; BIO 495 Senior Seminar.

Biology Electives: a minimum of 19 hours chosen from courses numbered above 299 and not used to satisfy other requirements. >500 level courses may be chosen with permission of the instructor.

No more than 10 hours may be counted from BIO 480, 491 (6 hr. max), 493 (2 hr. max), 498 (3 hr. max), and 499 (6 hr. max)

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_____ Total elective hours

Collateral Requirements (30 Hours minimum)

- _____ Chemistry 101 (4)
- _____ Chemistry 102 (4)
- _____ Chemistry 211 and CHML 211 (3) (1), prerequisite CHM 102
- _____ Chemistry 212 and CHML 212 (3) (1), prerequisite CHM 211/CHML 211, **or**
- _____ BIO 465 Biochemistry with lab (3) (1), prerequisite BIO 201, BIO 202 and CHM 211/CHML 211
- _____ Physics 101 (co-requisite MAT 111) or 201 (co-requisite MAT 161) (4) (4)
- _____ Physics 102 (co-requisite MAT 111) or 202 (co-requisite MAT 162) (4) (4)
- _____ Mathematics 151 (3) or 161 (4)
- _____ Statistics 215 (3)

A "C" (2.00 GPA) or better average in Biology courses numbered above 299 and an overall 2.00 GPA in all courses are required for graduation.